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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/943,562	08/30/2001	Ronald P. Doyle	RSW920010161US1	2522	
7590 07/13/2006		EXAMINER			
Jeanine S. Ray-Yarletts			DIVECHA, KAMAL B		
IBM Corporatio PO Box 12195	n T81/503	ART UNIT	PAPER NUMBER		
Research Triangle Park, NC 27709			2151		
			DATE MAILED: 07/13/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)				
Office Action Summary		09/943		DOYLE ET AL.				
		Examin	ier	Art Unit	T			
		KAMAL	B. DIVECHA	2151				
	The MAILING DATE of this communi				ddress			
Period fo	• •							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANAGER, FROM THE MANAGER, FROM THE MANAGER (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. In tutory period will apply and will, by statute, cause the a	THIS COMMUNIC event, however, may a re I will expire SIX (6) MONT application to become ABA	CATION. sply be timely filed IHS from the mailing date of this of the capacity of the capaci				
Status								
1)[\]	Responsive to communication(s) file	d on 26 April 2006						
•	•	2b)☐ This action is						
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-)-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>45-80,82-99 and 102</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
· · _	6)⊠ Claim(s) <u>45-80, 82-99 and 102</u> is/are rejected.							
·								
8)	Claim(s) are subject to restrict	tion and/or election	requirement.					
Applicati	on Papers							
9)[7]	The specification is objected to by the	e Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including		·		FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* 5	ee the attached detailed Office action	n for a list of the ce	rtified copies not i	received.				
Attachmen	`` •		, -	(DTO 448)				
1) ⊠ Notic 2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)		ummary (PTO-413))/Mail Date				
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date			formal Patent Application (PT	O-152)			

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Response to Arguments

Claims 45-80, 82-99 and 102 are pending in this application.

Applicant's arguments filed 4/26/2006 have been fully considered but they are not persuasive.

In response filed, applicant argues in substance:

a. Hu and Blumenau do not teach or suggest redirecting a request to the control unit of an intelligent storage system and further argues that the redirect mode of Hu is not equivalent to the redirect link as recited in the current claims (remarks, page 15).

In response to argument [a], Examiner disagrees for the at least following reasons:

First, It is well known that every server on the network is associated with some type of software and/or hardware which is responsible for servicing incoming requests i.e. control unit. Hu expressly discloses the content servers on the network (see fig. 1-2, 9A).

Hu expressly teaches the process of redirecting a request to an appropriate content server and since the content servers on the network are equipped with a control unit, the request is directed to and received by the control unit of the server (col. 12 L35-42).

Secondly, In Hu, server modules provides a conventional interface, such as hypertext transfer protocol (HTTP), well known in the relevant art (col. 5 L20-40). Therefore Hu's "whatever information" used in describing the redirecting a request should have been clear because http uses a special code for redirecting a request that is sent by the server to the client, which then establishes a connection with the other server.

Therefore, the redirect mode in Hu and the redirect link of the present invention is equivalent because both inventions uses a well known interface (i.e. http) and the redirect code is expressly defined in HTTP.

Applicant admitted that the redirect mode proposed by Hu returns to the requesting client whatever information is required to enable the client to establish a direct connection with the

content server (remarks filed 8/22/05, pg. 14), but argues that the redirect mode of Hu is not equivalent to the redirect link as recited in current claims.

According to the applicant, a redirect link enables returning a redirect status code to a requester of the object that would redirect the requester to the control unit of the intelligent storage system (i.e. would establish a direct connection with the control unit of the Intelligent storage, remarks filed 8/22/05, pg. 16).

Hu's system explicitly employs the Hypertext Transfer Protocol (HTTP, col. 5 L30-40), which is well known to those skilled in the art for communication. The redirect mode proposed by Hu returns "whatever information" is required to enable the client to establish a direct connection with the content server.

The process of returning "whatever information" to the client disclosed by Hu should be interpreted as the process of returning a status code and a destination address that would redirect the client to the final destination by enabling a client to directly communicate with the destination, simply because redirection, status code, redirect status code, redirect link etc., are all well known features of the Hypertext Transfer Protocol (HTTP, see Fielding et al., "Hypertext Transfer Protocol – HTTP/1.1; Request for Comments: 2616 and 2068 June 1999), which is explicitly disclosed by Hu.

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b. There is no motivation to combine Hu and Blumenau (remarks, page 16).

In response to argument [b], examiner disagrees for the at least following reasons:

The motivation to combine Blumenau with Hu is clearly discerned from Blumenau and the motivation is: first it would have reduced the increasing cost of management by reducing number of storage objects to be managed, secondly the storage controller would have controlled access to the data storage (Blumenau, col. 1 L18 to col. 2 L45), and third it would have provided an efficient storage system with increased storage capacity.

Therefore, the modification of cited references in the rejection below would have significantly resulted the claimed invention disclosed in the present application.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 45-49, 51, 53-56, 60-61, 63-80, 82-99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hu (hereinafter Hu, U.S. Patent No. 6,173,322 B1) in view of Blumenau et al. (hereinafter Blumenau, U. S. Patent No. 6,421,711 B1).

As per claim 45, Hu discloses a method of serving objects in a computing network, the method comprising: receiving a request for an object stored on an intelligent storage system, the request being received by a web server (fig. 4 block #404 and fig. 2 block #202); evaluating the request based on criteria (fig. 4 item #406 and col. 7 L53-63); if the criteria are met, redirecting the request to the content server (every server has a control unit, col. 5 L45-47, col. 12 L35-49); and if criteria are not met, serving the stored object via the web server (col. 11 L48-59),

however, Hu does not explicitly disclose a system wherein the intelligent storage system comprises a plurality of storage devices and a control unit configured to determine a mapping for the request to one of the plurality of storage devices.

Blumenau, from the same field of endeavor, discloses an intelligent storage system comprising a plurality of storage devices and a control unit configured to determine a mapping for the request to the one of the plurality of storage devices (fig. 1 item #28-31, item #27, fig. 21 item #246, fig. 22 item #269, col. 2 L 48-55, col. 7 L21-39). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Hu by incorporating the teaching of Blumenau as stated above (i.e. implementing storage system of Blumenau with Hu's system or replacing a group of content server in Hu's with the storage system of Blumenau) in order to implement in the system the intelligent storage system comprising plurality of storage devices and a control unit configured to determine a mapping for the request to the one or more of the plurality of storage devices.

One of ordinary skilled in the art would have been motivated because: first it would have reduced the increasing cost of management by reducing number of storage objects to be managed, secondly the storage controller would have controlled access to the data storage (Blumenau, col. 1 L18 to col. 2 L45), and third it would have provided an efficient storage system with increased storage capacity.

As per claim 46, Hu discloses the process of informing a sender of the received request that a subsequent connection to the control unit should be established for serving the stored object when the selected criteria are met (col. 6 L14-22; col. 13 L45-47; col. 12 L43-48; col. 18 L47-51).

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As per claim 47, Hu discloses the process wherein the subsequent connection bypasses the web server (col. 12 L35-52).

As per claim 48, Hu discloses the process wherein informing a sender of the received request that a subsequent connection to the control unit should be established for serving the stored object when the selected criteria are met uses a redirect code (interpreted as the address of the intelligent storage system) of an existing protocol (col. 11 L17-34 and col. 3 L8-10).

As per claim 49, Hu discloses the process wherein the existing protocol is Hypertext Transfer Protocol (col. 5 L29-34; col. 6 L60-61).

As per claim 51, Hu discloses the process of requesting establishment of the subsequent connection automatically in response to the redirect code (col. 12 L35-40).

As per claim 53, Hu discloses the process wherein evaluating the request based on criteria comprises comparing a size of the stored object to a statically-specified number (col. 10 L1-9; col. 8 L26-38 and fig. 6 step#602).

As per claim 54, Hu discloses the process wherein the statically-specified number is specified by an administrator using a configuration interface (col. 7 L60-62).

As per claim 55, Hu discloses the process wherein evaluating the request based on criteria comprises comparing a size of the stored object to a dynamically-determined number (fig. 6 block #204 and step #602, 604; col. 7 L53-61; col. 5 L55-67 and col. 10 L1-5).

As per claim 56, Hu discloses the process wherein the dynamically-determined number is determined in view of current network conditions (col. 9 L7-65).

As per claim 60, Hu discloses the process wherein evaluating the request based on criteria comprises determining whether a naming extension matches an element in a set of

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dynamically-determined set of naming extensions (fig. 7 block #702 and fig. 6 step #602 and col. 8 L26-38).

As per claim 61, Hu discloses the process wherein the dynamically-determined set of naming extensions is determined in view of current network conditions (col. 9 L7-65).

As per claim 63, Hu discloses the process wherein evaluating the request based on criteria comprises determining whether an object name matches an element in a statically-specified set of object names (fig. 7 block #702 and fig. 6 step #602 and col. 8 L26-38).

As per claim 64, Hu discloses the process wherein the statically-specified set of object names is specified by an administrator using a configuration interface (col. 7 L60-64).

As per claim 65, Hu discloses the process wherein evaluating the request based on criteria comprises determining whether an object name matches an element in a set of dynamically-determined set of object names (fig. 7 block #702 and fig. 6 step #602 and col. 8 L26-38).

As per claim 66, Hu discloses the process wherein the dynamically-determined set of object names is determined in view of current network conditions (col. 9 L7-65).

As per claim 67, Hu discloses the process wherein the predetermined criteria comprises a content type of the stored object (col. 13 L5-10).

As per claim 68, Hu discloses the process wherein evaluating the request based on criteria comprises determining whether a content type matches an element in a statically-specified set of content types (fig. 7 block #702 and fig. 6 step #602 and col. 8 L26-38).

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As per claim 69, Hu discloses the process wherein the statically-specified set of content types is specified by an administrator using a configuration interface (col. 7 L53-62; col. 8 L42-59).

As per claim 70, Hu discloses the process wherein evaluating the request based on criteria comprises determining whether a content type matches an element in a set of dynamically-determined set of content types (fig. 7 block #702 and fig. 6 step #602 and col. 8 L26-38).

As per claim 71, Hu discloses the process wherein the dynamically-determined set of content types is determined in view of current network conditions (col. 9 L7-65).

As per claim 72, Hu discloses the process wherein the predetermined criteria comprises using one or more wildcards which may operate to match more than one stored object (col. 6 L53-61).

As per claim 73, Hu does not explicitly disclose the system wherein the intelligent storage system comprises network-attached storage. Blumenau explicitly discloses the system comprising a network-attached storage system (fig. 1). Therefore it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to incorporate the teaching of Blumenau as stated above with Hu, in order to employ the network-attached storage system. One of ordinary skilled in the art would have been motivated because of the same reasons as set forth in claim 45.

As per claim 74, Hu discloses a method of creating a link to an object, the method comprising: receiving a request for a particular object (col. 5 L29-34; col. 18 L29); evaluating characteristics of the particular object (col. 6 L62-67 and col. 8 L8-10; col. 18 L30-31); creating

a redirect link on one or more web servers from which the particular object may be requested if the evaluated characteristics of the particular object meet criteria (col. 5 L41-47 and col. 12 L43-52), the redirect link being configured to redirect the request to the content server (fig. 2 item #212, col. 12 L35-36) and creating an object serving link on the one or more web servers if the evaluated characteristics of the particular object do not meet the criteria (col. 6 L43-61 and col. 11 L45-59), however Hu does not disclose the process of receiving a request for a particular object in an intelligent storage system comprising a plurality of storage devices and a control unit configured to determine mapping for the request to one of the plurality of storage devices. Blumenau, from the same field of endeavor, discloses the process of receiving a work request (receiving a request for a particular object) in an intelligent storage system comprising a plurality of storage devices and a control unit configured to determine a mapping for the request to the one of the plurality of storage devices (fig. 33 item #382, fig. 1 item #28-31, item #27, fig. 21 item #246, fig. 22 item #269, col. 2 L 48-55, col. 7 L21-39). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Hu by incorporating the teaching of Blumenau as stated above (i.e. implementing storage system of Blumenau with Hu's system or replacing a group of content server in Hu's with the storage system of Blumenau) in order to implement in the system the intelligent storage system comprising plurality of storage devices and a control unit configured to determine a mapping for the request to the one or more of the plurality of storage devices. One of ordinary skilled in the art would have been motivated because of the same reasons as set forth in claim 45.

As per claim 75, Hu discloses the process wherein the redirect link enables returning a redirect status code to a requester of the object (col. 12 L43-52).

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As per claim 76, Hu discloses the process of requesting establishment of a subsequent connection automatically in response to receiving the redirect status code for retrieving the particular object directly from the intelligent storage system (col. 12 L35-40 and col. 18 L47-51).

As per claim 77, Hu discloses the process wherein contents of the redirect link are programmatically created (col. 5 L20-22 and L40-47).

As per claim 78, Hu in view of Blumenau does not explicitly disclose the process wherein the contents of the redirect link are manually created, but it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Hu in view of Blumenau in order to create the contents of the redirect link manually. One of ordinary skilled in the art would have motivated because it would have enabled a web site developer or an administrator to redirect traffic to an appropriate destination.

As per claim 80, Hu discloses a method of serving large objects, the method comprising: receiving a request for a particular object stored on an intelligent storage system (col. 5 L29-34; col. 18 L29); creating a redirect Link on one or more web servers from which the particular object may be requested (col. 5 L41-47 and col. 12 L43-52); and serving the particular object from one of the plurality of storage devices via the control unit of the intelligent storage system using the redirect Link or through a selected one of the servers using the object serving Link (col. 5 L55-67 and col. 16 L65-67 to col. 17 L1-5; col. 6 L17-22), however Hu does not discloses an intelligent storage system comprising a plurality of storage devices and a control unit configured to determine mapping for the request to one of the plurality of storage devices. Blumenau, from the same field of endeavor, discloses the process of receiving a work request (receiving a request for a particular object) in an intelligent storage system comprising a plurality

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of storage devices and a control unit configured to determine a mapping for the request to the one of the plurality of storage devices (fig. 33 item #382, fig. 1 item #28-31, item #27, fig. 21 item #246, fig. 22 item #269, col. 2 L 48-55, col. 7 L21-39). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Hu by incorporating the teaching of Blumenau as stated above (i.e. implementing storage system of Blumenau with Hu's system or replacing a group of content server in Hu's with the storage system of Blumenau) in order to implement in the system the intelligent storage system comprising plurality of storage devices and a control unit configured to determine a mapping for the request to the one or more of the plurality of storage devices. One of ordinary skilled in the art would have been motivated because of the same reasons as set forth in claim 45.

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As per claims 79, 82-99, they do not teach or further define over the limitations in claims 45-49, 51, 53-56, 60-61, 63-78 and 80. Therefore, claims 79, 82-99 are rejected for the same reasons as set forth in claims 45-49, 51, 53-56, 60-61, 63-78 and 80.

2. Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hu (hereinafter Hu, U.S. Patent No. 6,173,322 B1) in view of Blumenau et al. (hereinafter Blumenau, U.S. Patent No. 6,421,711 B1) and further in view of Dillon et al (hereinafter Dillon, U.S. Patent No. 6,658,463 B1).

As per claim 50, Hu in view of Blumenau does not explicitly disclose the process of using the wireless session protocol. Dillon explicitly discloses a satellite communications network including an upstream proxy server and two reporting downstream proxy servers wherein communication takes place through a wireless satellite link using wireless session protocol (fig. 7 and col. 12 L52-58). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to incorporate the teaching of Dillon with Hu in view of Blumenau in order to order to enable communications wirelessly by using wireless session protocol. One of ordinary skilled in the art would have been motivated because it would have improved the transmission efficiency by providing high-speed and continuous channel carrying packetized data (Dillon et al, col. 1 L15-21; col. 3 L38-57).

3. Claims 52 and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hu (hereinafter Hu, U.S. Patent No. 6,173,322 B1) in view of Blumenau et al. (hereinafter Blumenau, U. S. Patent No. 6,421,711 B1) and further in view of "Official Notice".

As per claim 52, Hu in view of Blumenau does not explicitly disclose the process wherein the predetermined criteria comprise a size of the stored object. But, it is well known and obvious to a person of ordinary skilled in the art at the time the invention was made to process the request based on the rule that addresses the size of the stored object. Therefore, Official Notice is taken to indicate that the criteria includes the size of the stored object is obvious and

well known in the art. One of ordinary skilled in the art would have been motivated because it would have enabled efficient filtering capabilities, which would have resulted in a robust decision making process.

As per claim 62, Hu in view of Blumenau does not explicitly disclose the process wherein the predetermined criterion comprises a name of the stored object. But, it is well known and would have been obvious to a person of ordinary skilled in the art at the time the invention was made to process the request based on the rule that addresses the name of the object.

Therefore, Official Notice is taken to indicate that the criteria including the name of the stored object is obvious and well known in the art.

One of ordinary skilled in the art would have been motivated because of the same reasons as set forth in claim 52.

4. Claims 57-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hu (hereinafter Hu, U.S. Patent No. 6,173,322 B1) in view of Blumenau et al. (hereinafter Blumenau, U. S. Patent No. 6,421,711 B1) and further in view Abraham et al. (U.S. Patent No. 5,983,270).

As per claim 57, Hu in view of Blumenau does not explicitly disclose the process wherein the criteria comprises a naming extension of the stored object. Abraham explicitly discloses the filtering rule comprising naming extension of the stored object (col. 45 L1-30). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to incorporate the teaching of Abraham as stated above with Hu in view of Blumenau in order to provide a rule or policy based on the naming extension of the object. One of ordinary skill in the art would have been motivated so that the requests or packets are filtered according to most recent mapping information, which would have resulted in an robust and efficient decision, and further would have controlled the network congestion and decreased network latency.

As per claim 58, Hu in view of Blumenau does not explicitly disclose the process wherein evaluating the request based on criteria comprises determining whether a naming extension matches an element in a statically-specified set of naming extensions. Abraham explicitly discloses the process of determining whether a naming extension matches an element in a statically specified set of naming extensions (col. 45 L1-30). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to incorporate the teaching of Abraham as stated above with Hu in view of Blumenau in order to determine whether a naming extension matches with the statically specified set of naming

extension. One of ordinary skilled in the art would have been motivated because of the same reason as set forth in claim 57.

As per claim 59, Hu in view of Blumenau does not explicitly disclose the process wherein the statically-specified set of naming extensions is specified by an administrator using a configuration interface. Abraham discloses a graphical user interface where system administrator is provided with the configuration interface for specifying file type policy by identifying file extensions (col. 11 L26-51). Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to incorporate the teaching of Abraham in order to provide a configuration interface for specifying the rules and policies based on naming extensions. One of ordinary skilled in the art would have been motivated because it would have allowed an administrator to establish policies through the graphical user interface.

5. Claim 102 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hu (hereinafter Hu, U.S. Patent No. 6,173,322 B1) in view of Blumenau et al. (hereinafter Blumenau, U.S. Patent No. 6,421,711 B1) in view of "Official Notice", and further in view of Abraham et al. (U.S. Patent No. 5,983,270).

As per claim 102, it does not teach or further define over the limitations in claims 45-49. 51-80 and 82-99. Therefore claim 102 is rejected for the same reasons as set forth in claims 45-49, 51-80 and 82-99.

Additional References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see PTO-892 dated 12/29/2005).

Conclusion

An attempt was made by the examiner to contact the undersigned on June 28, 2006, however did not result in a discussion.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAMAL B. DIVECHA whose telephone number is 571-272-5863. The examiner can normally be reached on Increased Flex Work Schedule.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kamal Divecha Art Unit 2151 July 6, 2006.

SUPERVISORY PATENT EXAMINER